

Reply to Office Action dated February 27, 2007

REMARKS

Claims 1-33 are pending in this application. By this Amendment, claims 1-2, 6, 12, 14, 16-17, 19-22, 26 and 28-31 are amended and new claims 32-33 are added. Various amendments are made for clarity and are unrelated to issues of patentability.

The Office Action states that applicant has not filed certified copies of the two Korean priority documents. The Office Action also states that the oath/declaration is defective. Applicant attaches certified copies of the two Korean priority documents as well as a Substitute Declaration.

Applicant gratefully acknowledges the Office Action's indication that claims 20, 24 and 27-29 contain allowable subject matter. However, as will be discussed below, all claims are believed to be allowable.

The Office Action rejects claims 1-18 and 21 under 35 U.S.C. §112, second paragraph. It is respectfully submitted that the above amendments obviate the grounds for rejection. Further, applicant believes that there is no "disconnect" between claim 19 reciting a PWM signal and claim 22 reciting a generated PWM signal. Withdrawal of the rejection is respectfully requested.

The Office Action rejects claims 1, 17 and 30-31 based on nonstatutory obviousness-type double patenting over claims 1 and 4-6 of U.S. Patent 6,961,044 to Woo. It is respectfully submitted that claims 1, 17, 30 and 31 are not obvious over claims 1, 4, 5 and 6 of Woo. That is, independent claim 1 recites changing an LCD frame frequency of the LCD based on the system information and that the system information comprises electrical interference or noise. Applicant respectfully submits that these features of independent claim 1 are not obvious over claims 1 and

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4-6 of Woo. Additionally, independent claim 30 recites a controller configured to select one of a plurality of different frame frequencies of the LCD based on a system environment. It is respectfully submitted that these features are not obvious over claims 1 and 4-6 of Woo. Claims 17 and 31 depend from independent claims 1 and 30, respectively, and therefore are not obvious over claims 1 and 4-6 of Woo. In summary, claims 1, 17, 30 and 31 of the present application are not obvious over claims 1 and 4-6 of Woo. Withdrawal of the non-statutory obviousness-type double patenting rejection is respectfully requested.

The Office Action rejects claims 1, 17, 18, 19, 25, 26, 30 and 31 under 35 U.S.C. §102(e) by U.S. Patent Publication 2004/0008176 to Nuimura. The Office Action also rejects claims 1, 15, 17-19, 25-26 and 30-31 under 35 U.S.C. §103(a) over Nuimura in view of U.S. Patent 5,786,801 to Ichise. The rejections are respectfully traversed with respect to the pending claims.

Independent claim 1 recites control means for changing an LCD frame frequency of the LCD based on a system environment, and outputting information based on the changed LCD frame frequency for an LCD inverter, wherein the system environment comprises electronic interference or noise. Independent claim 1 also recites PWM converting means for generating a PWM signal for the LCD inverter based on the information received from the control means, and driving means for converting an input voltage into a signal having a waveform synchronized to the PWM signal received from the PWM converting means.

Features of independent claim 1 relating to the system information were previously recited in dependent claim 2, which was not rejected based on the prior art. Independent claim 1 is believed to define patentable subject matter at least for this reason.

Additionally, Nuimura and Ichise do not teach or suggest the claimed control means for changing an LCD frame frequency of the LCD based on a system environment, and outputting information based on the changed LCD frame frequency for an LCD inverter where the system environment comprises electrical interference or noise. For at least these reasons, independent claim 1 defines patentable subject matter.

Independent claim 19 recites identifying a frame frequency of the LCD by selecting one of a plurality of frame frequencies based on a system environment, and outputting PWM information based on the identified frame frequency. Independent claim 19 also recites generating a PWM signal, based on the PWM information and brightness control information for an LCD lamp.

Features of independent claim 19 were previously recited in allowable dependent claim 20. Thus, independent claim 19 is believed to define patentable subject matter at least for this reason. Additionally, the applied references do not teach or suggest identifying the frame frequency of the LCD by selecting one of a plurality of frame frequencies based on a system environment. Thus, independent claim 19 defines patentable subject matter.

Independent claim 30 recites a controller configured to select one of a plurality of different frame frequencies of the LCD based on a system environment and to output PWM information based on the selected frame frequency for an LCD lamp, and a PWM converter configured to generate a PWM signal based on the PWM information.

The applied references do not teach or suggest at least these features of independent claim 30. That is, Nuimura and Ichise do not teach a controller configured to select one a

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plurality of different frame frequencies of the LCD based on the system environment. The Office Action (on page 6) never discusses the feature of selecting one a plurality of frame frequencies of the LCD based on a system environment. The applied references do not teach or suggest at least these features of independent claim 30. Thus, independent claim 30 defines patentable subject matter.

Additionally, new independent claim 33 includes features from allowable dependent claim 27 (and independent claim 19). Thus, independent claim 33 defines patentable subject matter.

For at least the reasons set forth above, each of independent claims 1, 19, 30 and 33 defines patentable subject matter. Each of the dependent claims depends from one of the independent claims and therefore defines patentable subject matter at least for this reason. In addition, the dependent claims recite features that further and independently distinguish over the applied references.

CONCLUSION

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance of claims 1-33 are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

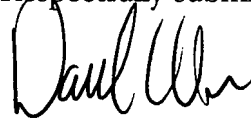
Serial No. **10/803,037**

Docket No. **LT-0058**

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concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,



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Attachments: Substitute Declaration
Claim for Priority

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Date: May 21, 2007

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